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(54) **SELF-ADHESIVE EYELASHES EXTENSION SET**

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(52) **U.S. Cl.**
CPC **A41G 5/02** (2013.01)

(58) **Field of Classification Search**
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See application file for complete search history.

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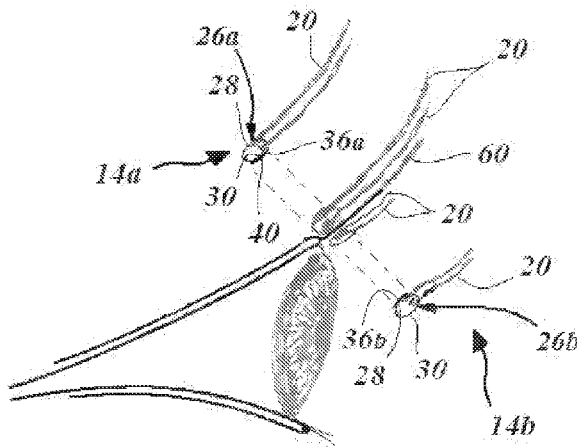
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(57) **ABSTRACT**

A self-adhesive artificial eyelash system attachable to a subject wearer's existing natural eyelashes to modify the appearance of the existing natural eyelashes is disclosed. The system includes an adhesive that passes between the existing natural eyelashes and adheres to surrounding support strips such that the existing natural eyelashes are disposed between upper and lower support strips and the adhered support strips are supported on the existing natural eyelashes. Artificial lash hairs extend from the support strips and thus are supported on the existing natural eyelashes via the adhered support strips. The adherence layer between the support strips may include mechanical fasteners.

9 Claims, 3 Drawing Sheets



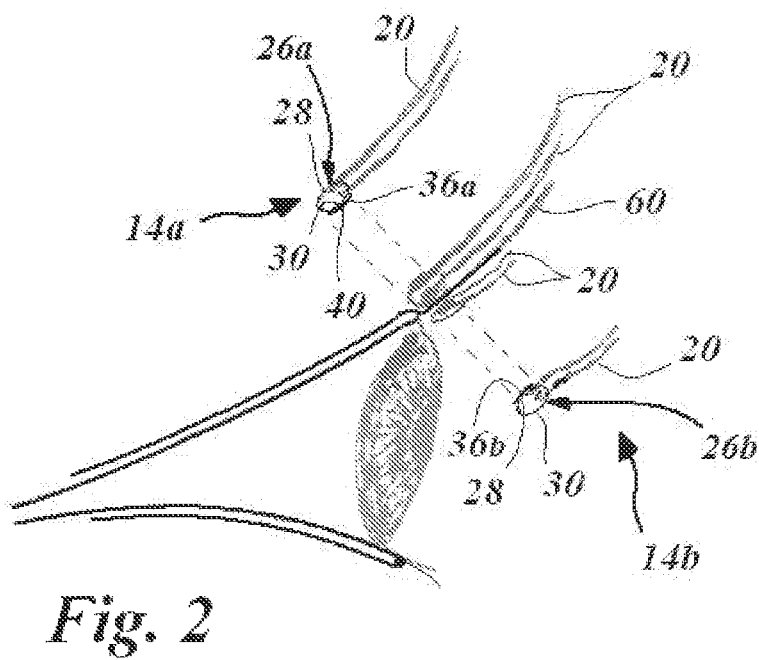
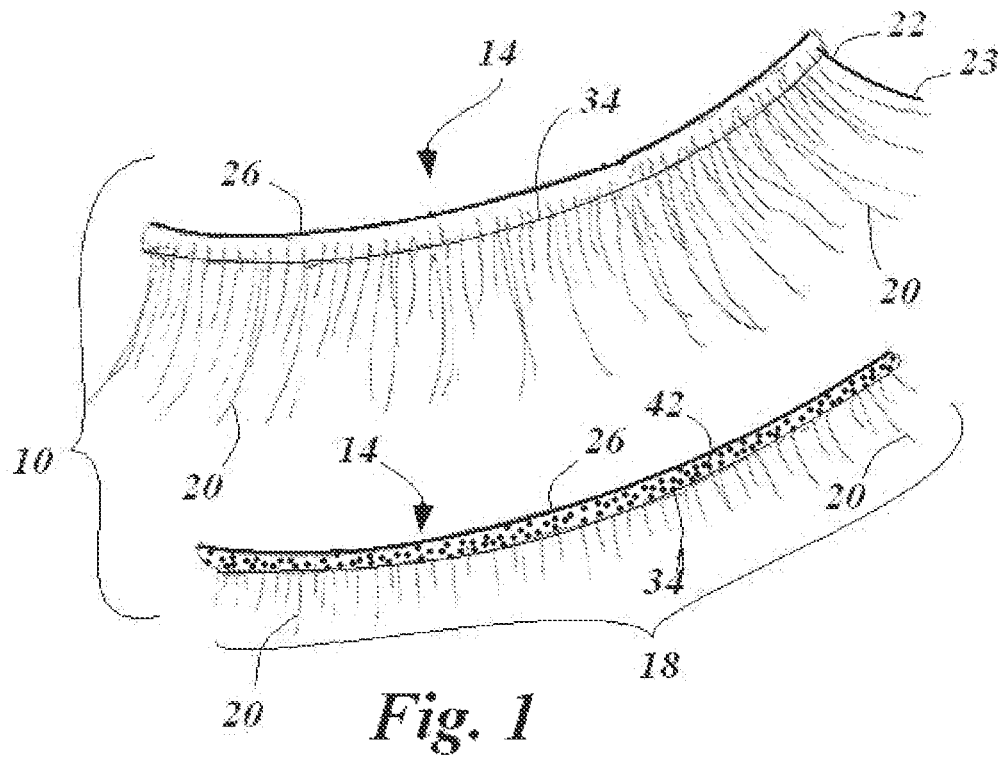
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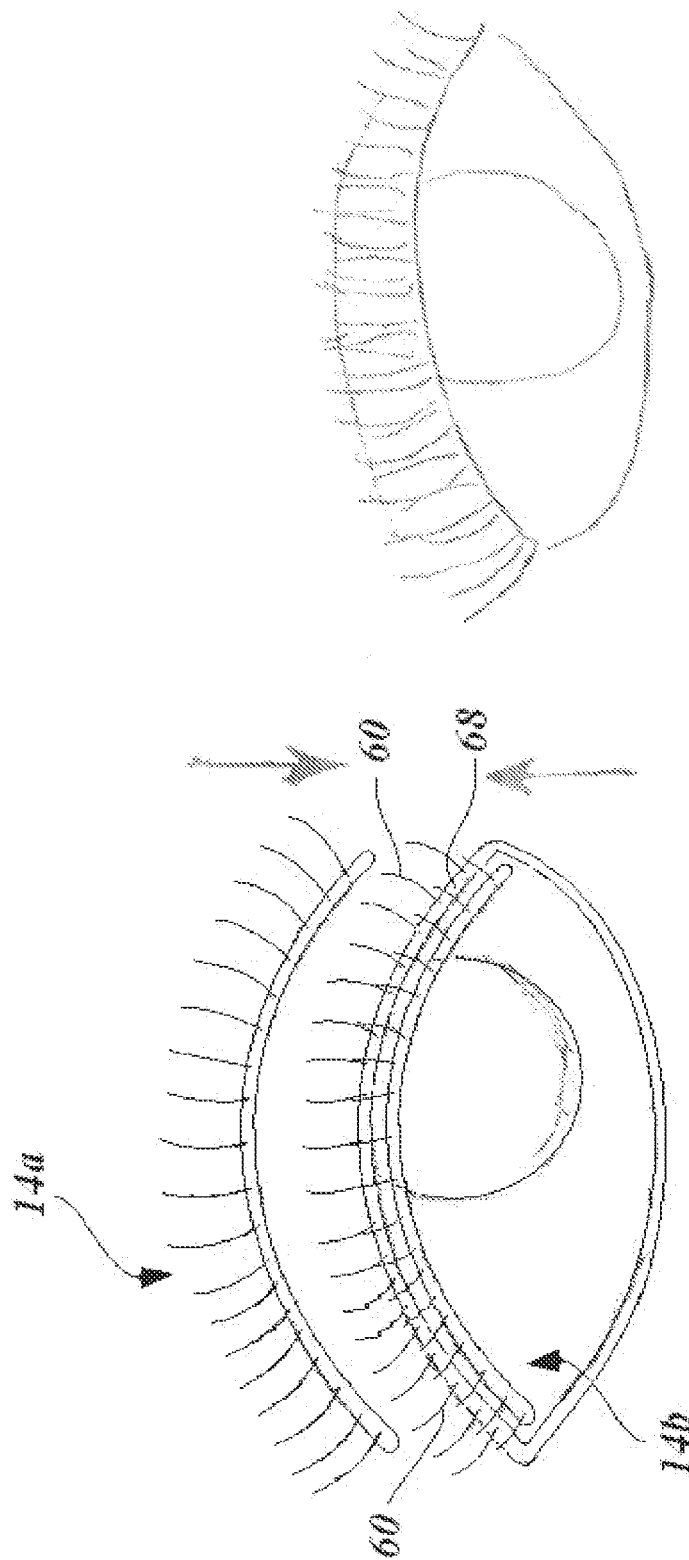
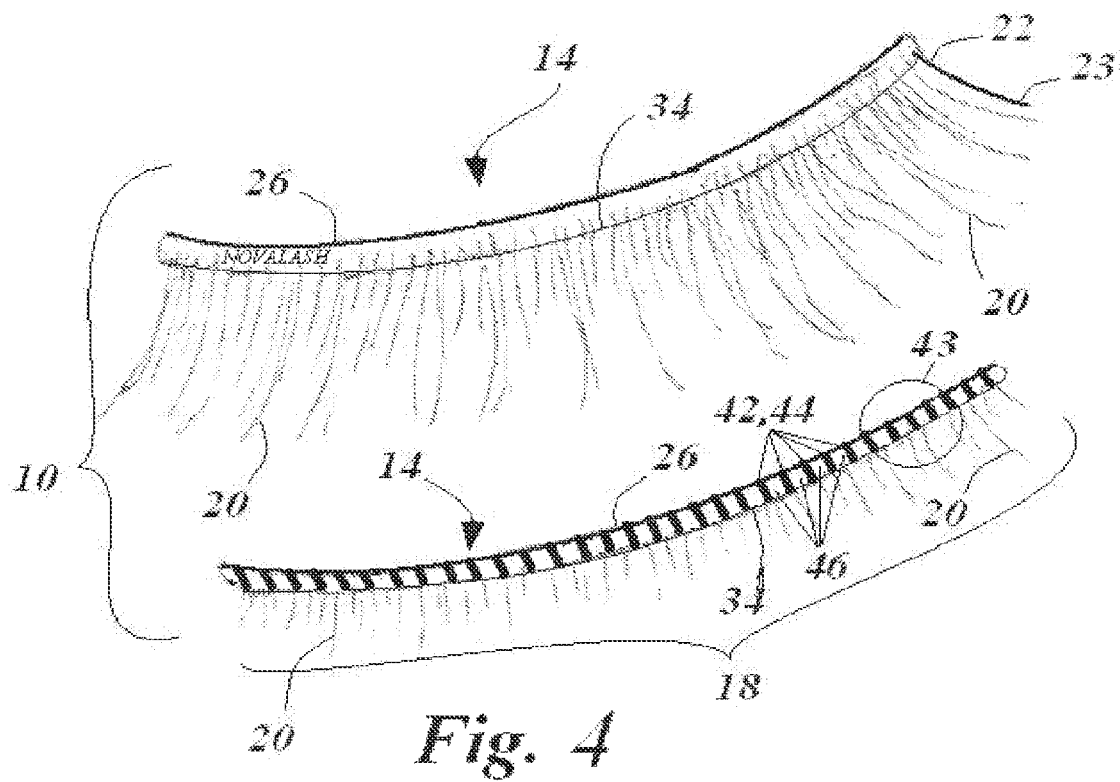


Fig. 3



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SELF-ADHESIVE EYELASHES EXTENSION SET**CROSS-REFERENCE TO RELATED APPLICATIONS**

The present application is a continuation of U.S. Non-Provisional patent application Ser. No. 11/695,033, filed Apr. 1, 2007, which claims priority to U.S. Provisional Patent Application No. 60/744,131, filed Apr. 2, 2006, both of which are fully incorporated herein by reference.

STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT

Not applicable.

BACKGROUND

The present invention is in the field of cosmetic materials. More specifically, the present invention relates to personal grooming and to artificial eyelashes adapted for attachment onto hair growing from an eyelid.

The cosmetic use of artificial eyelashes by persons in the making of their toilet is old in the art. Typically, eyelash sets comprise left and right arrays of lash hairs held together on an adhesive strip, and the array is attached to the skin of the upper eyelid of the wearer to cosmetically extend the length of the wearer's natural eyelashes. The individual hairs of the array are aligned with their bases in a substantially common direction. The bases of the lash hairs are embedded in the support strip, preferably in its leading edge. It is known in the art how to produce, select, sculpt and arrange the individual hairs of the array to provide various aesthetically desirable configurations of the array in combination with the support strip.

As noted above, prior art artificial eye lashes typically are applied to the skin of the wearer. It would be beneficial to have an alternative that does not attach to or contact the skin of the wearer. A benefit of this is a reduced risk that the wearer would be exposed to the solvents or other chemicals in the adhesive and mounting strip of the eyelash strip. Additionally, if it is desired for regular adherence of the artificial eyelash by the application of pressure to the adhesive, it would be beneficial to be able to avoid applying the pressure directly to the tissue (i.e., eyelid and/or eyeball) of the wearer. It would also be beneficial in the field to be able to remove and reapply the artificial eyelash strips.

SUMMARY

The present invention is a self-adhesive artificial eyelash unit that attaches to a subject wearer's existing natural eyelashes to modify their appearance. The unit is preferably applied as a left and right set of units, with the left and the right sets including an upper unit and optionally including a lower unit. The left and right sets correspond to the wearer's left and right eyes. The upper and lower units of a set correspond to the upper and lower surfaces of a wearer's natural eyelashes. Each unit includes an array of artificial lash hairs, each lash hair having a base and a tip. Preferably, the artificial lash hairs are sculpted, in that the base of the individual lash hair is thicker than its tip. The lash hairs are somewhat spaced apart in the array with their bases in a common direction relative to a support strip. The bases are received in the support strip, preferably at its leading edge. The support strip has an adhesive-receiving surface on which an adhesive is disposed. In the embodiments illustrated, the support strip was

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made of polyurethane and had the bases of the hairs of the array of artificial lash hairs embedded in the polyurethane of the leading edge of the support strip. An adhesive is disposed on the adhesive-receiving surface of the support strip. The adhesive releasably attaches the support strip to the existing natural eyelashes of the wearer to provide for cosmetically altering the appearance of the wearer's natural eyelashes. The adhesive may be supplied in place on a unit and covered with a removable protective covering, or may be separately applied to the adhesive receiving surface by the wearer just prior to use.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a top plan view of a self-adhesive artificial eyelash extensions set of the present invention, comprising a pair of lash extension units: an upper unit and a lower unit.

FIG. 2 is side view of a self-adhesive artificial eyelash extension set of the present invention installed on a subject wearer's existing natural eyelashes.

FIG. 3 is a front view of a self-adhesive artificial eyelash extension set of the present invention positioned to be installed on a subject wearer's existing natural eyelashes.

FIG. 4 is a top plan view of an alternate embodiment of the invention in which adhesive is applied intermittently.

DETAILED DESCRIPTION

Referring now to the drawings, the details of the embodiments of the present invention are graphically and schematically illustrated. Like elements in the drawings are represented by like numbers, and any similar elements are represented by like numbers with a different lower case letter suffix.

As illustrated in FIG. 1, the present invention is self-adhering artificial eyelashes extensions 10 for attachment to a subject wearer's existing natural eyelashes 60 (see FIGS. 3 and 4) to provide the cosmetic appearance of natural looking longer and fuller eyelashes, or alternatively, fanciful eyelashes. An eyelashes extension unit 14 is made up of an array 18 of artificial lash hairs 20, each lash hair 20 having a base 22 and a tip 23. The individual hairs 20 of the array 18 are aligned with their bases 22 in a substantially common direction relative to a support strip 26. The bases 22 of the lash hairs 20 are embedded in the support strip 26, preferably in its leading edge 34. It is known in the art how to produce, select, sculpt and arrange the individual hairs 20 of the array 18 to provide various aesthetically desirable configurations of the array 18 in combination with the support strip 26.

In the preferred embodiment illustrated in the figures, the support strip 26 of the lash extension unit 14 is made of polyurethane. Additionally, as illustrated in FIGS. 1 and 2, the support strip 26 has a top surface 28, a bottom surface 30 and a leading edge 34. The bases 22 of the lash hairs 20 of the artificial lash hair array 18 are embedded in the polyurethane of the leading edge 34 of the support strip 26. On any lash extension unit 14, one of the surfaces 28, 30 of the support strip 26 is also an adhesive surface 36 disposed to receive a film or a layer 40 of an adhesive 42.

The adhesive 42 disposed on the adhesive surface 40 of a support strip 26 enables the strip 26 of the lash extension unit 14 with its array 18 of artificial lash hairs 20 to be releasably adhered to the existing natural lashes 60 of the wearer.

In a preferred embodiment, the adhesive 42 is a silicone-based composition. However, other adhesive compositions are known to and are selectable by one of ordinary skill in the

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art. For example, a heat or light cured self-adhering composition may be particularly advantageous.

Attaching a present self-adhering artificial eyelashes extensions unit **14** to the existing natural eyelashes **60** of the wearer provides for cosmetically extending the length of the wearer's natural eyelashes **60**.

In a preferred embodiment illustrated in the figures, the present self-adhering artificial eyelashes extensions are provided as a matched set of two units **14**, the set being made up of an upper unit **14a** (see FIG. 2) for attachment to the top side of the existing natural eyelashes **60** on a wearer's upper eyelid **68**, and a lower unit **14b** for attaching to the bottom side of the same eyelashes. In this embodiment, the self-adhesive artificial eyelash extension set **10** comprises two support strips, one being an upper unit support strip **26a** and the other being a lower unit support strip **26b**, the upper unit support strip **26a** has a bottom adhesive surface **36a**, and the lower unit support strip **26b** has an upper adhesive surface **36b**.

In using the present invention, the wearer's existing natural lashes **60** (e.g., of the wearer's upper eyelid) are sandwiched between the upper and lower lash hair units **14a** & **14b** of a lash extension set **10** of the present invention. The self-adhering adhesives **42** of the two lash hair extension units **14a** & **14b** come into contact and bond the two adhesive layers together with the wearer's existing natural lashes **60** disposed between them. In a preferred embodiment, the adhesive **42** is contact sensitive. However, pressure sensitive and heat or light setting adhesives may be practiced in the present invention, if the adhesive effect can be released to enable removal of the artificial lash extension units.

Referring now to FIG. 4, in another embodiment, the adhesive **42** is distributed intermittently across the adhesive-receiving surface, or in a pattern **43**, such that, for at least one of the matched pair, not the entire surface is covered with adhesive. The disposition of the adhesive **42** in such a pattern **43** can help optimize the adhering characteristics of the upper and lower matched set, together making it easier to remove such artificial units **14** or makes them more permanent, according to the desire of the wearer or the cosmetician. For example, the adhesive pattern **43** may be strips **44** of adhesive parallel to and aligned with the hairs **20** having non-adhesive spaces **46** in between of a width comparable to that of the adhesive strip width (e.g., the width of four human hairs), thereby allowing a cosmetician or the wearer to simply offset one unit with respect to another in order to control the amount of adhering force, thereby eliminating the need for a large stock of eyelash units **14** having a varying amount of adhesive **42**.

In another embodiment, one of the matched pairs of units **14** does not have any adhesive **42** and relies on the adhesive present on the matched unit, passing between natural lashes **60**, and contacting the surface of the unit, to retain the assembly together.

Although it is the primary intent of the invention to provide an artificial eyelash unit **14** or lash set **10** that enhances a wearer's eyelashes **60** such that they appear natural, fuller, longer and consequently, more attractive, the invention allows for a departure from this usual goal, without departing from the spirit and scope of the invention. In other words, although the polyurethane strip **26** is generally made dark or clear and the artificial lashes **20** of a natural color, the strip **26** may even be made of different colors and be of differing sizes according to the desire of the wearer. Such strip **26** may even be embedded with a metallic glitter, according to the desire of the wearer. Further, text may be printed on the non-adhesive surface of the strip **26**, such as the trademark of the manufacturer, or a phrase or expression invoking a theme, perhaps

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even including the name of the wearer. Such strip **26** may optionally be embedded with a material which absorbs light energy and emits the absorbed light at a predetermined level or rate, such that when ambient light level is lower than the emission rate, the strip **26** is ruminated. Further, the self-adhering artificial eyelashes extensions **10** may be made up of artificial eyelashes **20** of a fanciful color, like gold or silver, or some other color, and may be luminescent as well. The array **18** may be homogeneous or include a pattern of different color eyelashes **20**, randomly mixed, alternating one to the other, or set in groups of lashes of different colors.

In another embodiment, the attachment may be accomplished by mechanically interlocking the units to each other (and to the natural eyelashes) using a suitable loop-and-hook combination (e.g., a VELCRO™-type combination), wherein each matched strip **26** has a complementary mechanical structure which engages with a corresponding mechanical structure of the matching strip **26** as well as with the natural lashes **60** themselves.

In an advantage, the invention provides an artificial eyelash that enhances a wearer's eyelashes **60** such that they appear natural, fuller and consequently, more attractive. This is due to the fact that sandwiching of the natural lash **60** between two artificial lash units **14** that better cover the natural lashes, thereby making them appear more consistent and fuller.

In another advantage, the level of permanence of such eyelash assembly **10** may be controlled by controlling the amount or pattern of adhesive on the eyelash strips **26**.

In another advantage, a wearer may select from a wide variety of appearance from a natural appearance to a fanciful appearance.

In another advantage, the invention conveys a desired message by permitting printing on the eyelash strip **26**.

While the above description contains many specifics, these should not be construed as limitations on the scope of the invention, but rather as exemplifications of one or another preferred embodiment thereof. Many other variations are possible, which would be obvious to one skilled in the art. Accordingly, the scope of the invention should be determined by the scope of the appended claims and their equivalents, and not just by the embodiments.

What is claimed is:

1. A method of applying an artificial eyelash extension system comprising:
 - positioning a first eyelash extension unit above a wearer's natural eyelashes;
 - positioning a second eyelash extension unit below a wearer's natural eyelashes;
 - contacting a support strip of the first eyelash extension unit with a support strip of the second eyelash extension unit; and
 - adhering or mechanically interlocking the support strips such that the support strips are sandwiched about and retained on the natural eyelashes and a first array of artificial eyelashes extend from the first support strip above the natural eyelashes and a second array of artificial eyelashes extend from the second support strip below the natural eyelashes.
2. The method of claim 1 wherein the support strips comprise polyurethane to surround and capture the base of each artificial eyelash.
3. The method of claim 1 wherein the first array of artificial eyelashes extend a first distance from the first support strip, the second array of artificial eyelashes extend a second distance from the second support strip, and the first distance is greater than the second distance.

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4. The method of claim 1 further comprising removing the support strips from each other and from the natural eyelashes.

5. The method of claim 1 further comprising applying heat, light, pressure, or a combination thereof to an adhesive between the support strips.

6. The method of claim 1 wherein an adhesive between the support strips comprises a silicone-based composition.

7. The method of claim 1 further comprising bonding adhesive surfaces of the support strips and releasably adhering the adhesive surfaces to the sandwiched natural eyelashes.

8. The method of claim 1 further comprising:

a third eyelash extension unit having an array of artificial eyelashes embedded in and extending from a third support strip;

a fourth eyelash extension unit having an array of artificial eyelashes embedded in and extending from a fourth support strip; and

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adhering or mechanically interlocking the third support strip to the fourth support strip about opposite sides of another of the wearer's natural eyelashes.

9. The method of claim 8 further comprising:

positioning the first eyelash extension unit on the top side of the wearer's upper natural eyelashes;

positioning the second eyelash extension unit on the lower side of the wearer's upper natural eyelashes;

releasably adhering the first and second support strips onto the upper natural eyelashes to sandwich them between the first and second support strips;

positioning the third eyelash extension unit on the top side of the wearer's lower natural eyelashes;

positioning the fourth eyelash extension unit on the lower side of the wearer's lower natural eyelashes; and

releasably adhering the third and fourth support strips onto the lower natural eyelashes to sandwich them between the third and fourth support strips.

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